

Arterial Blood Gas (ABG)

Does this test have other names?

ABG, systemic arterial blood gas analysis, PaO₂, PaCO₂, pH, or oxygen saturation test

What is this test?

An arterial blood gas analysis (ABG) measures the balance of oxygen and carbon dioxide in your blood to see how well your lungs are working. It also measures the acid-base balance in the blood. Your kidneys and lungs work to keep your acid-base levels in balance. You need this for the enzyme systems in your body to work at their best. When there is an imbalance, your blood has too much acid (acidosis) or too much base (alkalosis). Untreated, the imbalance can be harmful and even life-threatening.

① ABG - arterial blood gas

ABG test measures O_2 & CO_2 level in your blood -
→ It also measures your body's acid-base (pH) level, which is usually in balance when you're healthy

→ Normal ABG level -

• according to the national Institute of health,

→ typical normal value are - pH 7.35 - 7.45.

• Partial pressure of O_2 (PaO_2) - 75 to 100 mmHg.

• " — of CO_2 (P_aCO_2) - 35 - 45 mmHg.